## JC10 Rec'd PCT/PTO 2 6 MAY 2005

Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTTORNEY'S DOCKET NUMBER

AOY-3992US

7 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PCT/JP02/12412 28 November 2002 (28.11.2002) TITLE OF INVENTION METHOD AND APPARATUS FOR ESTIMATING ROTOR POSITION AND FOR SENSORLESS CONTROL OF A SWITCHED RELUCTANCE MOTOR APPLICANT(S) FOR DO/EO/US Taro Kishibe, Subrata Saha, Hiroshi Murakami, Kazushige Narazaki Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. **|** The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. 🗸 An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. 🚺 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. 🗸 Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12. 13. A preliminary amendment. 14. 🖳 An Application Data Sheet under 37 CFR 1.76. A substitute specification. 16 A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 17. 18. L A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Other items or information: unexecuted Declaration/Power of Attorney; copy of PCT Publication cover page; PTO 2038 20.

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, USPTIO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFK 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO-1390 (Rev. 02-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATI	ON NO. (if known	see 37 CFR 1.5	international at PCT/JP02		ATTORNEY'S DOCKET NUMBER AOY-3992US			
The follo	The following fees have been submitted				CALCULATIONS PTO USE ONLY			
	•			\$300	\$ 300	T		
22.					\$ 200			
23. Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority					\$ 400			
TOTAL OF 21, 22 and 23 =					\$ 900			
sequence lis	Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							
Total Sheets	Extra Sheets		h additional 50 or fraction up to a whole number)	RATE				
- 100 =	/50 =			x \$250	\$			
	0.00 for furnishing ate (37 CFR 1.49)		aration later than 30 months f	rom the earliest	\$			
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$			
Total claims	2	22 - 20 =	2	× \$ 50	\$ 100			
Independent clair	ns 1	1 -3=	8	× \$200	\$ 1,600			
MULTIPLE DEPE	ENDENT CLAIM(S	) (if applicable)		+ \$360	\$ 360			
	TOTAL OF ABOVE CALCULATIONS =							
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.								
SUBTOTAL =					\$			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).					\$			
TOTAL NATIONAL FEE =					\$ 2,960			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$			
			TOTAL I	EES ENCLOSED =	\$ 2,960			
					Amount to be refunded:	\$		
					Amount to be charged:	\$ 2,960		
a. A chec	k in the amount of	\$	to cover the ab	ove fees is enclosed.				
	b. Please charge my Deposit Account No in the amount of \$ to cover the above fees.  A duplicate copy of this sheet is enclosed.							
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit t  Account No. 18-0350 . A duplicate copy of this sheet is enclosed.								
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on P10-2038.								
NOTE: Where ar	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
SEND ALL CORRESPONDENCE TO:								
Customer Number 52473 SIGNATURE								
OR Lawrence E.					Ashery /			
Ratner Prestia, P.O. Box 980, Valley Forge, PA 19482  RatnerPrestia, P.O. Box 1596, Wilmington, DE 19899  34,515								
Date :	May 26, 2005	005 REGISTRATION NUMBER						

10/536571 JC13 Rec'd PCT/PTO 26 MAY 2005

CERTIFICATE OF MAI	Docket No.								
Applicant(s): T. Kishibe e	AOY-3992US								
Serial No.	Filing Date	Examiner		Group Art Unit					
To Be Assigned	Herewith								
Invention: METHOD AND APPARATUS FOR ESTIMATING ROTOR POSITION AND FOR SENSORLESS CONTROL OF A SWITCHED RELUCTANCE MOTOR									
I hereby certify that the following correspondence:									
PCT National Stage Application with PTO Form 1390 and its enclosures									
	(Identify type o	f correspondence)							
Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to:  Mail Stop PCT,  Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 26, 2005									
	•	KM	ad Name of Person Mailing Correspondence)  Mailing Correspondence)  The of Person Mailing Correspondence)						
		EV 447719277 US ("Express Mai	il" Mailing L	abel Number)					
Note: Each paper must have its own certificate of mailing.									